

UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.
08/856.116	05/14/97	CHEN	F	AMAT/1931

MM41/0413

PATENE COUNSEL APPLIED MATERIALS INC P O BOX 450 A SANTA CLARA CA 95052 EXAMINER SOUW.B

ART UNIT PAPER NUMBER 2814

DATE MAILED: 04/13/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Application No.

08/856,116

Applicant(s)

Chen et al.

Office Action Summary Examiner

Bernard Souw

Group Art Unit 2814

X Responsive to communication(s) filed on Mar 2, 1999			
☐ This action is FINAL .			
☐ Since this application is in condition for allowance except for in accordance with the practice under <i>Ex parte Quayle</i> , 1935	C.D. 11; 453 O.G. 213.		
A shortened statutory period for response to this action is set to is longer, from the mailing date of this communication. Failure to application to become abandoned. (35 U.S.C. § 133). Extension 37 CFR 1.136(a).	respond within the period for response will cause the		
Disposition of Claims			
	is/are pending in the application.		
Of the above, claim(s) 19	is/are withdrawn from consideration.		
☐ Claim(s)	is/are allowed.		
	·		
	is/are objected to.		
☐ Claims			
Application Papers ☐ See the attached Notice of Draftsperson's Patent Drawing ☒ The drawing(s) filed on	d to by the Examiner. isapproveddisapproved. nder 35 U.S.C. § 119(a)-(d). the priority documents have been		
*Certified copies not received: Acknowledgement is made of a claim for domestic priority	under 35 U.S.C. § 119(e).		
Attachment(s) Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper No Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO-948 Notice of Informal Patent Application, PTO-152	(s)		
SEE OFFICE ACTION ON TI	HE FOLLOWING PAGES		

Art Unit: 2814

DETAILED ACTION

- 1. The reply received on 03/05/99, Paper No. 5, is not fully responsive to the prior Office action mailed on 03/03/99 (Paper No. 4). Since the above-mentioned reply appears to be bona fide, applicant is given ONE (1) MONTH or THIRTY (30) DAYS from the mailing date of this notice, whichever is longer within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).
- 2. Applicant's election with traverse of claims 1-18 and 20, drawn to a method of making a semiconductor device, classified in Class 438, Subclass 643, in Paper No.5 is acknowledged. The traversal of claim 19 is on the ground(s) that the Examiner does not state any basis for finding that the identified processes are materially different from the processes claimed by the Applicants. This is not found persuasive because a process that deposits metal patterns on a substrate board for receiving an IC chip, or a process that forms contacts for field emission cathode rays, are both materially different from the processes claimed, e.g., regarding substrate material(s). Not only the two products are materially different than the Applicant's, the specific materials being involved in the processes performed in the apparatus, too, can be easily changed or replaced by other materials. For example, a CVD chamber for depositing Si_xN_y or copper can be as well used to deposit a great variety of other materials, such as insulators (e.g., SiO₂), metals (e.g., aluminum), and other compounds (e.g., TiN), just by changing the gas precursors. In a similar manner, a plasma assisted sputtering device with a tantalum target can be easily transformed to deposit other metals and compounds by removing

l

Application/Control Number: 08/856,116

Art Unit: 2814

the tantalum foil from the target holder and replacing it with other sputtering target material(s), e.g.,

molybdenum, nickel, or gold.

The requirement is still deemed proper and is therefore made FINAL.

Papers related to this application may be submitted directly to Art Unit 2814 by facsimile

transmission. Papers should be faxed to Art Unit 2814 via the Technology Center 2800 fax center

located in Crystal Plaza 4, room 4C23. The faxing of such papers must conform with the notice

published in the Official Gazette, 1096 OG 30 (15 November 1989).

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Bernard E. Souw whose telephone number is (703) 305-3303. The examiner

can normally be reached on Monday-Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Olik Chaudury, can be reached on (703) 305-2794. The fax number for the organization where this

application or proceeding is assigned is (703) 308-7722 or -7724.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Technology Center receptionist at (703) 308-0956.

BES

Bernard E. Souw

March 31, 1999

Olik Chaudhuri Supervisory Patent Examiner Page 3

Technology Center 2800